

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1016	(381/98).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/13 16:35
S2	7	sarpeshkar.in. and (distribut\$3 same gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/13 16:30
S3	3	turicchia.in. and (distribut\$3 same gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/13 15:24
S4	0	williamson.in. and (cochlear same octave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/13 15:25
S5	2	williams\$3 and (cochlear same octave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/13 15:26
S6	0	williamsen.in. and octave and cochlea\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/13 15:29
S7	2	williamson.in. and octave and cochlea\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/13 15:29
S8	69	("5027410").URPN.	USPAT	OR	OFF	2007/07/13 15:32
S9	24	("20020147595"   "3978287"   "4433604"   "4516259"   "4536844"   "4812996"   "4920508"   "5027410"   "5054085"   "5099738"   "5119711"   "5142961"   "5187776"   "5381512"   "5402493"   "5473759"   "5502663"   "5675778"   "5732189"   "5792971"   "5983139"   "6137349"   "6140809"   "6513004").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/13 16:10

## EAST Search History

S10	4	(("5473759") or ("6231604") or ("4633501") or ("20050141733")).PN.	US-PGPUB; USPAT	OR	OFF	2007/07/16 12:00
S11	7	sarpeshkar.in. and (distribut\$3 same gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:18
S12	1	S11 and (resonant same gain) and (linear with spatial with filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 14:46
S14	837	(704/500).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/13 16:38
S15	363	(704/200.1).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/13 16:38
S17	114	(381/316).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/13 16:38
S18	655	(381/61).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/13 16:38
S19	13	("5473759").URPN.	USPAT	OR	OFF	2007/07/13 16:47

## EAST Search History

S20	51	("3180936"   "3403224"   "3509558"   "3571529"   "3784749"   "3803357"   "3855423"   "3872290"   "3894195"   "3927279"   "3989897"   "3989904"   "4025721"   "4051331"   "4061875"   "4071695"   "4079334"   "4099035"   "4112254"   "4169219"   "4185168"   "4187413"   "4188667"   "4249042"   "4297527"   "4366349"   "4396806"   "4409435"   "4425481"   "4454609"   "4508940"   "4548082"   "4622440"   "4628529"   "4630304"   "4630305"   "4661981"   "4696044"   "4700361"   "4701953"   "4723294"   "4731850"   "4747143"   "4783818"   "4791672"   "4792977"   "4852175"   "4887299").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/13 16:48
S21	69	("5027410").URPN.	USPAT	OR	OFF	2007/07/16 14:40
S22	2	sarpeshkar.in. and (distribut\$3 same gain) and (multi-frequency)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 11:48
S23	1	sarpeshkar.in. and (distribut\$3 same gain) and (multi-frequency) and non-linear	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 13:31
S24	7	((("5473759") or ("6231604") or ("4633501") or ("20050141733") or ("7076315") or ("4536844") or ("5473759") or ("5027410"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/07/16 12:00
S25	4	S24 and (non-linear nonlinear)	US-PGPUB; USPAT	OR	OFF	2007/07/16 13:54
S26	1	sarpeshkar.in. and (distribut\$3 same gain) and (multi-frequency) and non-linear and nonlinear	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 13:55
S27	1	sarpeshkar.in. and (distribut\$3 same gain) and (multi-frequency) and non-linear and nonlinear and double	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 13:53
S28	7	((("5473759") or ("6231604") or ("4633501") or ("20050141733") or ("7076315") or ("4536844") or ("5473759") or ("5027410"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/07/16 13:55

## EAST Search History

S29	6	S28 and cochlear	US-PGPUB; USPAT	OR	OFF	2007/12/31 11:24
S30	1	sarpeshkar.in. and (distribut\$3 same gain) and (multi-frequency) and non-linear and nonlinear and electromagnetic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 13:56
S31	0	S28 and electromagnetic	US-PGPUB; USPAT	OR	OFF	2007/07/16 13:57
S32	0	S28 and "EM"	US-PGPUB; USPAT	OR	OFF	2007/07/16 13:58
S33	6020	(cochlea\$1) andf (linear near3 spatial near2 filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 15:36
S34	1	(cochlea\$1) and (linear near3 spatial near2 filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 14:00
S35	1	(weight\$3 with average) same (linear near3 spatial near2 filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/17 11:50
S36	3	S28 and average	US-PGPUB; USPAT	OR	OFF	2007/07/16 14:01
S38	12	average same (linear near3 spatial near2 filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 14:08
S39	19	average same (linear with (spatial near2 filter\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 14:09
S40	6	(linear with (spatial near2 filter\$3)) same (audio sound auditory)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 14:09
S41	69	("5027410").URPN.	USPAT	OR	OFF	2007/07/16 14:41
S42	7	S41 and electromagnetic	USPAT	OR	OFF	2007/07/16 14:41

## EAST Search History

S43	7	sarpeshkar.in. and (distribut\$3 same gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 14:46
S44	1	S43 and (resonant same gain) and (linear same spatial same filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 14:47
S45	1	S43 and (resonant same gain) and (spatial same filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 15:06
S46	1	S43 and (resonant same gain) and (spatial same filter\$3) and (unity one)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 15:07
S47	1	S43 and (resonant same gain) and (spatial same filter\$3) and (unity same different\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 15:07
S48	2	(cochlea\$1) and ((multi-frequency multifrequency) near2 signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 16:19
S49	5	(distribut\$2 near3 gain) same cochlea\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 16:33
S50	25	("4532930"   "4592359"   "4628934"   "4729366"   "4947844"   "5000194"   "5105811"   "5443493"   "5470348"   "5571148"   "5601617"   "5603726"   "5649970"   "5775172"   "5814095"   "5833714"   "5957958"   "6002966"   "6011993"   "6067474"   "6217508"   "6236889"   "6289247"   "6355064"   "6473653").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/16 16:20
S51	2	("6826430").URPN.	USPAT	OR	OFF	2007/07/16 16:22

## EAST Search History

S52	30	("20030036782"   "20030044034"   "20030167077"   "20030171786"   "20040073275"   "20040082980"   "20040082985"   "20040114776"   "20040136556"   "20040172101"   "20040230254"   "20050137650"   "20050137651"   "4532930"   "4793353"   "4819647"   "5749912"   "5991663"   "6129753"   "6154678"   "6216045"   "6219580"   "6289247"   "6308101"   "6600955"   "6728578"   "6745155"   "6775389"   "6778858"   "6826430").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/16 16:23
S53	1693	(distribut\$2 near3 gain) and cochlea\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 16:28
S54	7	(distribut\$2 near3 gain) and cochlea\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 16:28
S55	7	(distribut\$2 near3 (compression amplitdue gain)) same (cochlear cochlea)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/16 16:34
S56	8	("4207441"   "4357497"   "5603726"   "5749912"   "6219580"   "6289247"   "6308101"   "6505076").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/16 16:34
S57	1	(weight\$3 near2 average) with ((non-linear nonlinear) near2 signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/17 13:19
S58	1	("4489390").PN.	USPAT	OR	OFF	2007/07/17 13:50
S59	1	(weight\$3 same average) same (linear near3 spatial near2 filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/17 14:19
S60	1	("6067125").PN.	USPAT	OR	OFF	2007/07/17 13:53
S61	62	(audio noise sound auditory) same (linear near3 spatial near2 filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/17 14:21

## EAST Search History

S62	1	(audio sound auditory) same (linear near3 spatial near2 filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/07/17 14:21
S63	1835	(381/314,320,330,316,98).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/12/30 13:09
S64	2	S63 and (double adj3 differentiat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/12/30 13:10
S65	13	("5473759").URPN.	USPAT	OR	OFF	2007/12/31 11:21
S66	7	((("5473759") or ("6231604") or ("4633501") or ("20050141733") or ("7076315") or ("4536844") or ("5473759") or ("5027410"))).PN.	US-PGPUB; USPAT	OR	OFF	2008/01/05 13:51
S67	0	S66 and (weight\$3 near2 (average mean))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/12/31 11:29
S68	3	S66 and (average mean)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/12/31 11:26
S69	227	(weight\$3 adj2 (average mean)) with (filters)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/12/31 11:30
S70	42	(weight\$3 adj2 (average mean)) adj3 (filters)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/12/31 11:30
S71	7	((("5473759") or ("6231604") or ("4633501") or ("20050141733") or ("7076315") or ("4536844") or ("5473759") or ("5027410"))).PN.	US-PGPUB; USPAT	OR	OFF	2008/01/05 13:52
S72	3	S71 and average	USPAT	OR	OFF	2008/01/05 14:06
S73	1	S71 and mean	USPAT	OR	OFF	2008/01/05 14:59

## EAST Search History

S74	0	fragniere.in. and cochlea\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 14:59
S75	0	vittoz.in. and cochlea\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 14:59
S76	0	schaik.in. and cochlea\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:20
S77	7	sarpeshkar.in. and (distribut\$3 same gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:16
S78	0	("20020398235").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/05 15:02
S79	0	("20020398253").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/05 15:03
S80	0	EP-152281-\$.did.	USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:08
S81	1	EP-1529281-\$.did.	USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:09
S82	0	("20030625360").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OFF	2008/01/05 15:16
S83	11	lorenzo.in. and (distribut\$3 same gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:20
S84	2	lorenzo.in. and (cochlea\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:18



## EAST Search History

S85	7	sarpeshkar.in. and (cochlea\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:18
S86	8	("4318050"   "4445054"   "5465072"   "5530399"   "6169433"   "6552611"   "6683497"   "6867649").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/05 15:19
S87	139	(weight\$2 adj2 (average mean)) and cochlea\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:48
S88	0	(weight\$2 adj2 (average mean)) same gain same cochlea\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:21
S89	0	(weight\$2 adj2 (average mean)) same resonance same cochlea\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:22
S90	3	(weight\$2 adj2 (average mean)) same cochlea\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:26
S91	27	("3751605"   "4400590"   "4495384"   "4819647"   "5603726"   "5626629"   "5702429"   "5758651"   "5776179"   "5876443"   "5938691"   "6066163"   "6067474"   "6078838"   "6129753"   "6157861"   "6175767"   "6195585"   "6205360"   "6208882"   "6219580"   "6249704"   "6289247"   "6295467"   "6415185"   "6751505"   "6915166").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/05 15:44
S92	2	((weight\$2 adj2 (average mean)) same gain) and cochlea\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:27
S93	7	("4882762"   "5500902"   "5550902"   "5724433"   "5832097"   "5832444"   "5848171").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/05 15:28
S94	1	("6873709").URPN.	USPAT	OR	OFF	2008/01/05 15:28

## EAST Search History

S95	5	S91 and weight\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2008/01/05 15:48
S96	134	(weight\$2 adj2 (average mean)) and cochlea\$2 and (different\$6 derivative)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:48
S97	103	(weight\$2 adj2 (average mean)) and cochlea\$2 and (differentia\$4 derivative)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 16:42
S98	5	((weight\$2 adj2 (average mean)) same (differentia\$4 derivative)) and cochlea\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 15:50
S99	565	(600/559).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/01/05 16:42